OPERATOR'S GUIDE

614

ISE Na^+/K^+ Analyzer

Ciba Corning Diagnostics Limited
Halstead, Essex CO9 2DX
England
Tel: (0787) 472461
Telex: 851 98204
Fax: (0787) 475088 Group 3

Ciba Corning Diagnostics Corp.
Medfield Massachusetts
02052, USA
Tel: 800-255-3232 • 617-359-7711
Telex: 924420
Fax: 0101 83 617 359 2879

Ciba Corning Diagnostics KK
1-19-15 Ebisu
Shibuya-ku, Tokyo 150, Japan
Tel: 03-440-2951
Telex: J33754 CORNMED J
Fax: 010 813 440 6999

CIBA·CORNING

MENU ROUTING MAP

OPERATING MENU

ANALYZE BLOOD ?
STANDARDIZE ?
LAST RESULT RECALL ?
URINE ANALYSIS ?
CHECK OR SERVICE ?

no

yes

CHECK OR SERVICE

QC NOW ?
SERVICE REAGENTS ?
DEPRO / CONDITION ?
SYSTEM STOP ?
SYSTEM TEST ?
DRAIN ?
PRIME ?
RETURN TO SET-UP ?

Will not appear unless QC limits are entered.

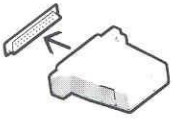
no

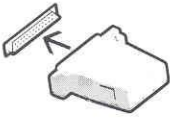
yes

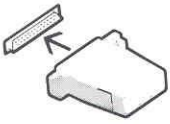
RETURN TO SET-UP

PRINTING SET-UP

CHANGE STD MODE ?
CHANGE QC LIMITS ?
CHANGE QC PROMPT ?
CHANGE ANALYTES ?
CHANGE REF RANGES ?
CHANGE SLOPE/INTCPT ?
CHANGE DATE/TIME ?
CHANGE PRINT OPTION ?
CHANGE DMS OPTION ?
CHANGE LANGUAGE ?
CHANGE SECURITY ?







no

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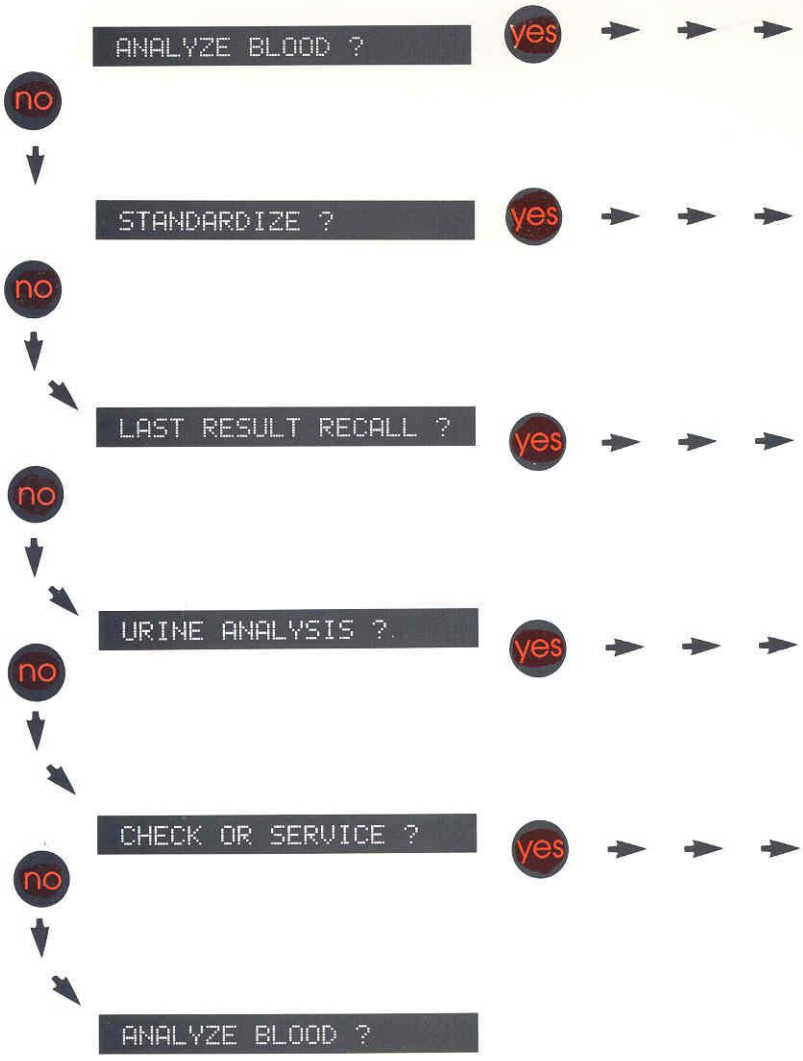
OPERATING MENU



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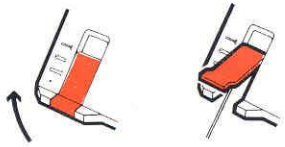
TO MEASURE A BLOOD SAMPLE

ANALYZE BLOOD ?

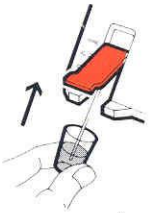
Use this mode for blood, serum and plasma.

yes

OPEN PROBE



PROBE IN SAMPLE ?

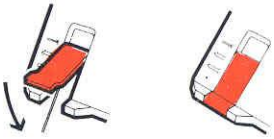


yes

SAMPLING

SAMPLING - WAIT

RETURN PROBE



MEASURING

PLEASE WAIT

BUBBLE - FLUSH ?

Na=145 K=4.20 mmol/L

ANALYZE BLOOD ?

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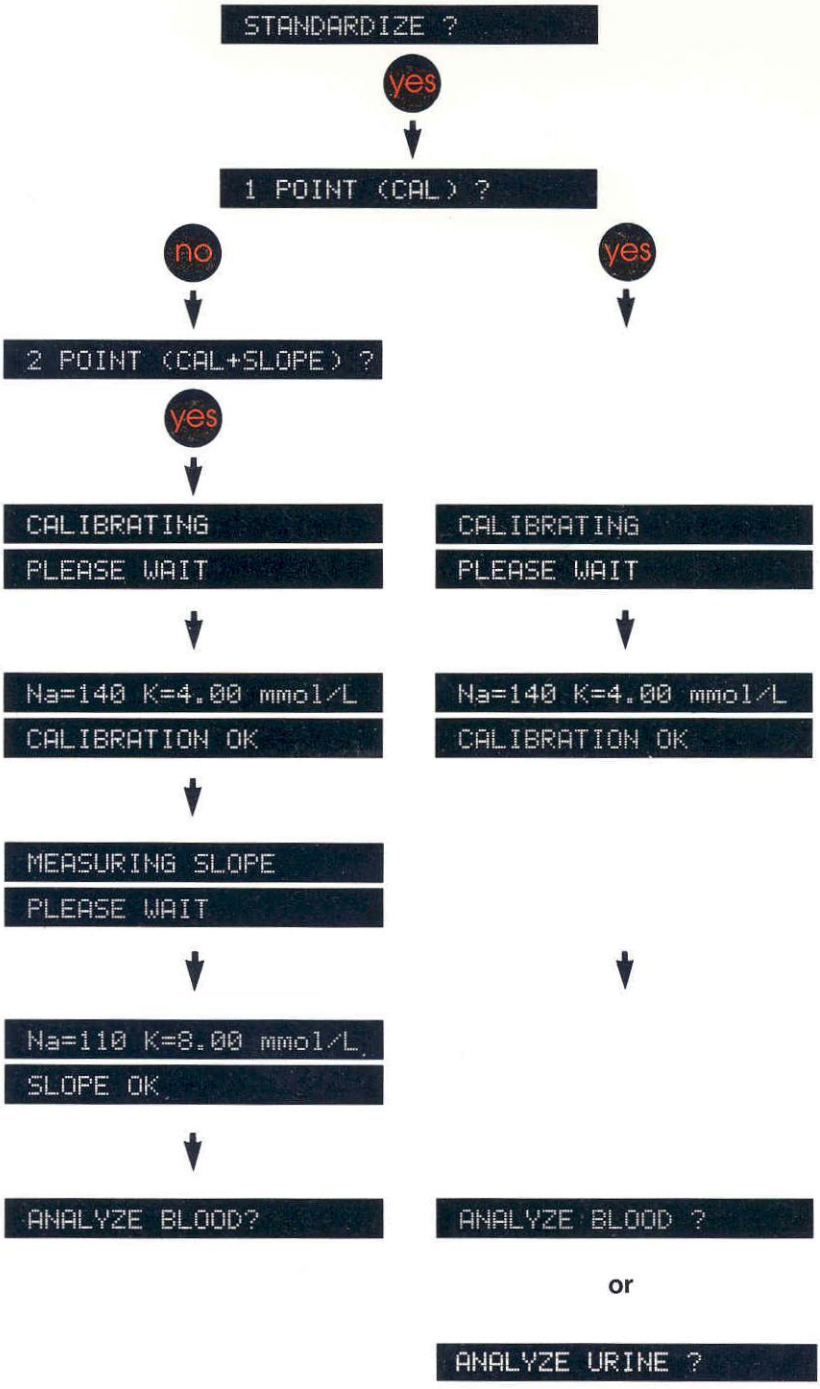
TO MANUALLY STANDARDIZE THE 614



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TO RECALL LAST RESULT

LAST RESULT RECALL ?

yes

Na=144 K=4.20 mmol/L

ANALYZE BLOOD ?

or

ANALYZE URINE ?

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TO MEASURE A URINE SAMPLE

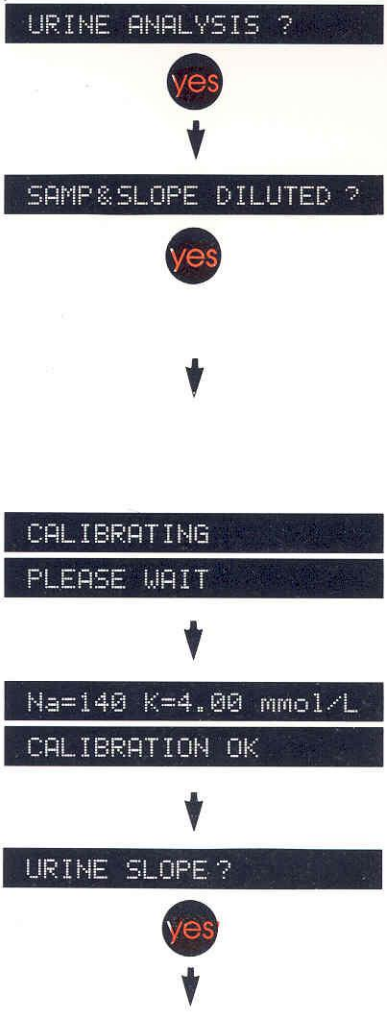
Ciba Corning recommend the use of:

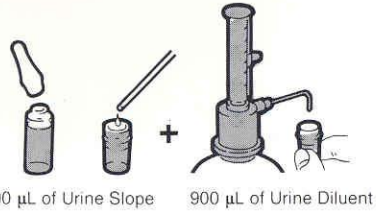
A 100 µL pipette; 2 mL (nominal), Na^+/K^+free sample cups with caps; and the 614 Urine Starter Pack.

1. Pipette 100 µL of Slope Standard and 900 µL of Urine Diluent into a sample cup. Cap and mix by inversion.

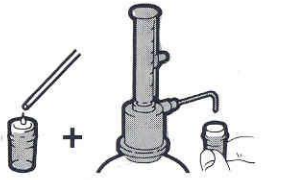
2. Pipette 100 µL of Sample and 900 µL of Urine Diluent into another sample cup. Cap and mix by inversion. Repeat for other samples.

CAUTION: Cap standard and samples immediately, as evaporation will cause dilution errors.





100 µL of Urine Slope 900 µL of Urine Diluent



100 µL of Urine Sample 900 µL of Urine Diluent

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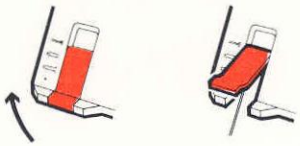
TO MEASURE A URINE SAMPLE (continued)

OPEN PROBE



PROBE IN UR. SLOPE ?

yes

SAMPLING

SAMPLING - WAIT

RETURN PROBE

MEASURING UR. SLOPE

PLEASE WAIT

Na=100 K=120 mmol/L

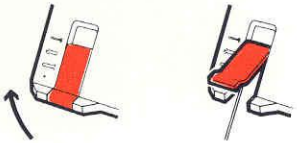
URINE SLOPE OK

ANALYZE URINE ?

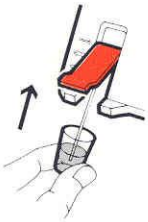
yes

TO MEASURE A URINE SAMPLE (continued)

OPEN PROBE



PROBE IN SAMPLE ?

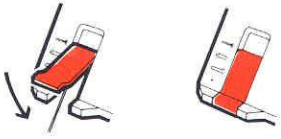


yes

SAMPLING

SAMPLING - WAIT

RETURN PROBE



MEASURING

PLEASE WAIT

BUBBLE - FLUSH ?

Na=50 K=60 mmol/L

ANALYZE URINE ?

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TO CHECK OR SERVICE THE 614

CHECK OR SERVICE ?

yes

QC NOW ?

Will not appear unless QC limits are entered.

no

yes

SERVICE REAGENTS ?

no

yes

DEPRO / CONDITION ?

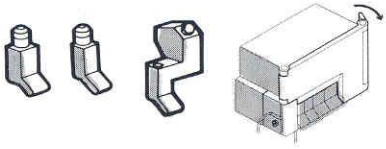
no

yes

SYSTEM STOP ?

no

yes



SYSTEM TEST ?

no

yes

D/A TEST ?

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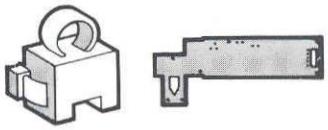
TO CHECK OR SERVICE THE 614 (continued)

DRAIN ?

no

yes



PRIME ?

no

yes

WAIT - PRIMING

RETURN TO SET UP ?

no

yes

PRINTING SET-UP

CHANGE STD MODE ?

CHANGE QC LIMITS ?

CHANGE QC PROMPT ?

CHANGE ANALYTES ?

CHANGE REF RANGES ?

CHANGE SLOPE/INTCPT ?

CHANGE DATE/TIME ?

CHANGE PRINT OPTION ?

CHANGE DMS OPTION ?

CHANGE LANGUAGE ?

CHANGE SECURITY ?

ANALYZE BLOOD ?

or

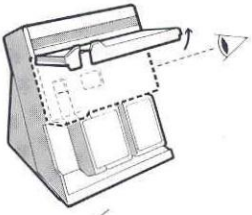
ANALYZE URINE ?

BUBBLE DETECTED

BUBBLE - FLUSH ?

no

SAMPLE REPOSITIONED ?



WARNING:
Move sample
in the direction
indicated only.

yes

MEASURING

PLEASE WAIT

Na=145 K=4.20 mmol/L

or

Na=50 K=60 mmol/L

yes

FLUSHING

ANALYZE BLOOD ?

or

ANALYZE URINE ?

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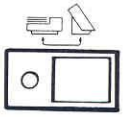
TO MEASURE SAMPLES USING AUTOSAMPLER

ANALYZE BLOOD ?



AUTOSAMPLER ?

yes

SAMPLE TRAY LOADED ?

yes

CONNECT PROBE

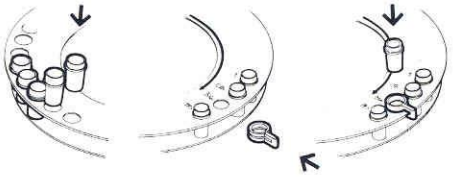
PROBE OVER CAL ?

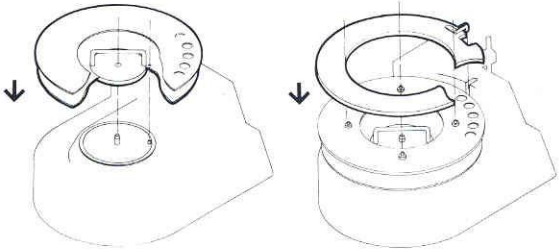
yes

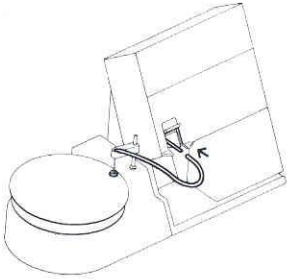
AUTOSAMPLER START ?

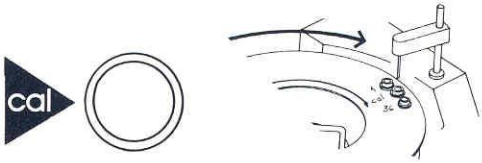
yes

Use this mode for serum and plasma samples only. Refer to autosampler instructions for urine procedure.









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TO MEASURE SAMPLES USING AUTOSAMPLER (continued)

SAMPLING

CALIBRATING

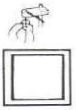
CALIBRATION OK
Na=140 K=4.00 mmol/L

SAMPLING

MEASURING

Na=145 K=4.20 mmol/L

STAT SAMPLE
Only measure blood, serum or plasma as a stat sample. Stat samples cannot be measured in urine mode.



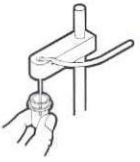
STAT NEXT

STAT SAMPLE (>150uL)?

yes

PROBE IN SAMPLE ?

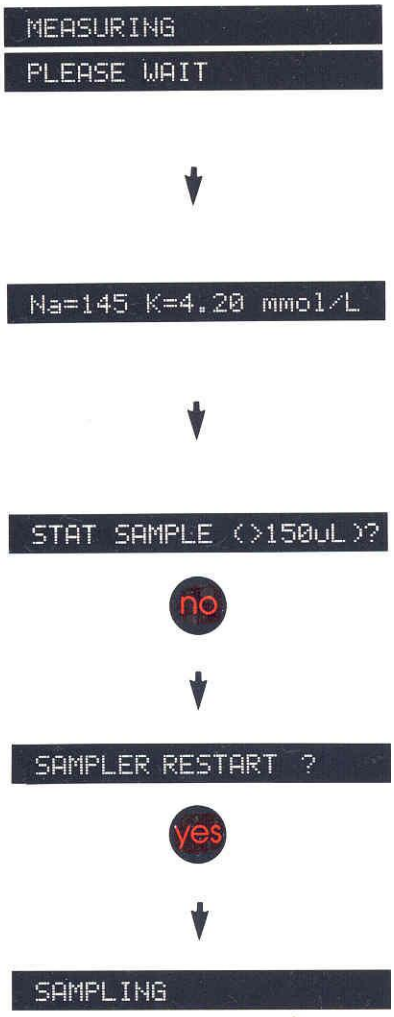
yes



SAMPLING
SAMPLING - WAIT

REMOVE STAT SAMPLE

TO MEASURE SAMPLES USING AUTOSAMPLER (continued)



ERROR MESSAGES

Note: Chart numbers refer to Troubleshooting Charts in the 614 Instruction Manual

A/D FAILED-REPEAT ?	If repeat test fails contact Ciba Corning or distributor.
BUBBLE - FLUSH ?	CHART 6
BUBBLE IN QC	CHART 6
BUBBLE IN UR SLOPE	CHART 6
CAL DRIFT	CHART 3
CAL FAILED-REPEAT ?	CHART 3 or 9
CAL OUT OF RANGE	CHART 3
CAL UNSTABLE	CHART 3
D/A FAILED-REPEAT ?	If repeat test fails contact Ciba Corning or distributor
HI QC:Na=150 K=*.**	CHART 2
HI QC:Na=*** K=7.50	CHART 2
K OVER RANGE	CHART 2
K UNDER RANGE	CHART 2
K UNSTABLE	CHART 4
LOW QC:Na=117 K=*.**	CHART 2
LOW QC:Na=*** K=3.10	CHART 2
MID QC:Na=139 K=*.**	CHART 2
MID QC:Na=*** K=4.50	CHART 2
Na OVER RANGE	CHART 2
Na UNDER RANGE	CHART 2
Na UNSTABLE	CHART 4
Na=145 K=*.** mmol/L	CHART 2
Na=*** K=4.20 mmol/L	CHART 2
Na/K UNSTABLE	CHART 4
SAMPLE NOT DETECTED	CHART 6 or 9
SAMPLER FAILED	CHART 9

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ERROR MESSAGES (continued)

SAMPLING FAULT	CHART 5 or 6
SLOPE FAILED-REPEAT ?	CHART 3
SLOPE OUT OF RANGE	CHART 3
SLOPE UNSTABLE	CHART 3
UR. SLP NOT DETECTED	CHART 6

If the display is not illuminated refer to **Chart 1.** If you have a problem with the printer refer to **Chart 7.**